

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

U.S. PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	4910794		1990-03-20	MAHANY	
	2	4931250		1990-06-05	GRESZCZUK	
	3	4939731		1990-07-03	REED ET AL.	
	4	4991184		1991-02-05	HASHIMOTO	
	5	5204876		1993-04-20	BRUCKERT ET AL.	
	6	5235614		1993-08-10	BRUCKERT ET AL.	
	7	5533004		1996-07-02	JASPER ET AL.	
	8	5577087		1996-10-19	FURUYA	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

9	5579306	1996-11-26	DENT
10	5649290	1997-07-15	WANG ET AL.
11	5697053	1997-12-09	HANLY ET AL.
12	5802046	1998-09-01	LOGAN
13	5943327	1999-08-24	MADEMANN ET AL.
14	5950124	1999-09-07	TROMPOWER ET AL.
15	6005856	1999-12-21	JENSEN ET AL.
16	6028852	2000-02-22	MIYA ET AL.
17	6073025	2000-06-06	CHHEDA ET AL.
18	6097704	2000-08-01	JACKSON ET AL.
19	6161013	2000-12-12	ANDERSON ET AL.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

20	6212176	2001-04-03	ANDERSSON ET AL.
----	---------	------------	------------------

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ^{2,1}	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	0353759	EP		1990-02-07	NORAND CORPORATION		<input type="checkbox"/>
	2	0687947	EP		1988-12-30	NEC CORP.		<input type="checkbox"/>
	3	01-122242	JP		1989-05-15	NEC CORP.		<input type="checkbox"/>
	4	01-170147	JP		1989-07-05	NEC CORP.		<input type="checkbox"/>
	5	03-060251	JP		1991-03-15	NIPPON TELEGRAPH AND TELEPHONE CORP.		<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

6	57-159148	JP	1982-10-01	FUJITSU LTD.	<input type="checkbox"/>
7	59-039150	JP	1984-03-03	FUJITSU LTD.	<input type="checkbox"/>
8	63-184420	JP	1988-07-29	NIPPON TELEGRAPH AND TELEPHONE CORP.	<input type="checkbox"/>
9	63-252047	JP	1988-10-19	NEC CORP.	<input type="checkbox"/>
10	462292	SU	1975-02-28	MAGAZANIK	<input type="checkbox"/>
11	1585902	SU	1988-11-05	SALIKOV ET AL.	<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	ACAMPORA, "The Use of Resource Sharing and Coding to Increase the Capacity of Digital Satellites," IEEE Journal on Selected Areas in Communications, Vol. SAC-1 No. 1, January 1983.	<input type="checkbox"/>
	2	ACAMPORA, "A Wireless Network for Wide-Band Indoor Communications," IEEE Journal on Selection Areas in Communications, Vol. SAC-5, June 1987.	<input type="checkbox"/>
	3	Buchholz et al., "Real-Time Management of Radio Turnaround in a TDMA/TDD System" MO-LA Technical Developments Volume 22 June 1994	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

4	FALAHATI, et al., "Implementation of Adaptive 5400 bit/s Modem Frequency Selective HF Radio Links", Electronic Letters: An International Publication, vol. 28, no. 13	<input type="checkbox"/>
5	FIFER, et al., "The Low-Cost Packet Radio," Proceedings of the IEEE, Vol. 75, No. 1 January 1987	<input type="checkbox"/>
6	FILIP, et al., "Adaptive Modulation as a Fade Countermeasure. An Olympus Experiment," International Journal of Satellite Communications, Vol. 8, 31-41 (1990)	<input type="checkbox"/>
7	FISCHER et al., "Wide-Band Packet Radio for Multipath Environments", IEEE Transactions on Communications, vol. 36, no. 5, pp. 564-576	<input type="checkbox"/>
8	FISCHER et al., "Wide-Band Packet Radio Technology", IEEE Transactions on Communications, vol. 75, no. 1, January 1987	<input type="checkbox"/>
9	FORNEY, et al., "Efficient Modulation for Band-Limited Channels", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. sac-2, no. 5, September 1984	<input type="checkbox"/>
10	GOODMAN, "Embedded DPCM for variable bit rate transmission", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-28, no. 7, July 1980	<input type="checkbox"/>
11	HEEGARD, et al., "A Microprocessor-Based PSK Modem for Packet Transmission Over Satellite Channels", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-26, no. 5, May 1978	<input type="checkbox"/>
12	HENRY, et al., "HF Radio Data Communication: CW to Clover", Communications Quarterly, Spring 1992, pp. 11-24	<input type="checkbox"/>
13	HIRADE, et al., "Digital Transmission Technology for Mobile Radio Communication,"	<input type="checkbox"/>
14	JACOBSMEYER, "Adaptive Trellis Coded Modulation for Bandlimited Meteor Burst Channels", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. 10, no. 3, April 1992	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

15	JENTZ, "Method to conserve power in subscribers using C/I+N algorithm", Motorola Technical Developments, vol. 21, February 1994.	<input type="checkbox"/>
16	KHAN, et al., "Adaptive Forward Error Control for Digital Satellite Systems," IEEE Transactions of Aerospace and Electronics Systems, Vol. AES-21, No. 4, July 1985	<input type="checkbox"/>
17	KNISELY et al., "CDMA2000: A Third Generation Radio Transmission Technology", BELL Labs Technical Journal, BELL Laboratories, US, vol. 3, no. 3, 1 July 1988 (1988-07-01)	<input type="checkbox"/>
18	LIN, et al., "An Adaptive ARQ Scheme Using Pragmatic TCM", Singapore ICCS 1994 Conference Proceedings, vol. 2, 14-18 November, pp. 649-652	<input type="checkbox"/>
19	MILSTEIN, et al., "Performance of Meteor-Burst Communication Channels", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. sac-5, no. 2, February 1987	<input type="checkbox"/>
20	MURPHY, "Telecommunications Talk," Creative Computing, January 1985, vol. 11, No. 1, pp. 16-22	<input type="checkbox"/>
21	OETTING, "An Analysis of Meteor Burst Communications for Military Applications", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-28, no. 9, September 1980	<input type="checkbox"/>
22	PETIT, "CLOVER II: A Technical Overview, AARL Amateur Radio," San Jose, California, September 27-29, 1991	<input type="checkbox"/>
23	PETIT, "The "CLOVERLEAF" Performance-Oriented HF Data Communication System," 9th Computer Networking Conference	<input type="checkbox"/>
24	RISTENBATT, et al., "Performance Criteria for Spread Spectrum Communications", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-25, no. 8, pp. 756-763, August 1977	<input type="checkbox"/>
25	Rozenstrauch et al., "Control Channel Interference Detection INS TDMA Systems with Frequency Re-Use", Motorola, Inc, Technical Developments, November 1995	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

26	SALZ, et al., "An Experimental Digital Multilevel FM Modem", IEEE TRANSACTIONS ON COMMUNICATIONS, vol. com-14, no. 3	<input type="checkbox"/>
27	SMARTMODEM 1200B HARDWARE REFERENCE MANUAL, HAYES MICROCOMPUTER PRODUCTS, INC.	<input type="checkbox"/>
28	STEELE, "Deploying Personal Communication Network," Proceedings Wireless 91, The Third National Seminar & Workshop on Wireless Personal Communications, pp. 1-14	<input type="checkbox"/>
29	STEELE, et al., "Variable Rate QAM for Data Transmission Over Rayleigh Fading Channels," Proceedings Wireless 91, The Third National Seminar & Workshop on Wireless Personal Communications, pp. 1-14	<input type="checkbox"/>
30	THOMAS, et al., "A New Generation of Digital Microwave Radios for U.S. Military Telephone Networks," IEEE Transactions on Communications, Vol. COM-27, No. 12, December 1979	<input type="checkbox"/>
31	THOMSPON et al., "Analysis of diversity reception improvements in spread spectrum receivers", Proceedings of the IEEE 3rd International Symposium on Spread Spectrum Techniques and Applications, vol. 2, pp. 455-459, 4-6 July 1994, Oulu, Finland.	<input type="checkbox"/>
32	Tyson, Tom: "A Method for Improved Site Selection in a Cell-Based TDMA Fail-Soft System" MOTOROLA Technical Developments; Dec 1, 1997, pp. 194-195	<input type="checkbox"/>
33	VOS, "Minimum Distance Channel Quality Metric", Motorola, Inc., Technical Developments, Volume 20, October 1993, pp. 8-9	<input type="checkbox"/>
34	WEBB, "QAM: The Modulation Scheme for Future Mobile Radio Communications," Electronics & Communication Engineering Journal, August 1992, pp. 167-176	<input type="checkbox"/>
35	WEITZEN, et al., "A High Speed Digital Modem for the Meteor Channel". Proceedings of the Seventeenth Annual Conference on Information Science and Systems, March 23-25, 1983.	<input type="checkbox"/>
36	WEITZEN, "Feasibility of high speed digital communications on the meteor scatter channel", University of Wisconsin, 1983	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	09382438
Filing Date	1995-08-15
First Named Inventor	WILLIAM R. GARDNER
Art Unit	2616
Examiner Name	MARCELO, MELVIN C
Attorney Docket Number	990482

37	WEST, "Data Concentration Method", IBM Technical Disclosure Bulletin, pp. 487-489	<input type="checkbox"/>
38	ZHANG, et al.: "An Integrated Voice/Data System for mobile indoor Radio Networks Using Multiple Transmission Rate", Global Telecommunications Conference. IEEE, Nov. 27-30, 1989, Dallas, TX, vol. 3, pages 1366-1370.	<input type="checkbox"/>
39	ITU-T V.22 bis, "DATA COMMUNICATION OVER THE TELEPHONE NETWORK: 2400 BITS PER SECOND DUPLEX MODEM USING THE FREQUENCY DIVISION TECHNIQUE STANDARDIZED FOR USE ON THE GENERAL SWITCHED TELEPHONE NETWORK AND ON POINT-TO-POINT 2-WIRE LEASED TELEPHONE-TYPE CIRCUITS"	<input type="checkbox"/>
40	ITU-T V. 32, "Data communication over the telephone network: A family of 2-wire, duplex modems operating at data signalling rates of up to 9600 bit/s for use on the general switched telephone network and on leased telephone type circuits", V. 32 March 1993	<input type="checkbox"/>
41	Partial European Search Report - EP09158507, Search Authority - Munich Patent Office - 05-29-2009	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.